

ODINTSOVA, N.V.

Hypotensive effects of the white water lily. Farm.1 toks. 23 no.2:  
132-335 Mr-Apr '60. (MIRA 14:3)

1. Kafedra farmakologii (zav.-prof. N.P.Sinit'syn) Gor'kovskogo  
meditsinskogo instituta imeni S.M.Kirova.  
(VASOMOTOR DRUGS) (WATER LILIES)

ROZENBLAT, V.V., kand.med.nauk, ODINTSOVA, N.V.,

Physical development of students of Sverdlovsk. Sov.zdrav. 17 no.  
11:12-17 N'58 (MIRA 11:10)

1. Iz Sverdlovskogo gorodskogo vrachebno-fizkul'turnogo dispansera.  
(GROWTH,  
of university students (Rus))  
(ADOLESCENTS,  
physical develop. of university students (Rus))

*ODINTSOVA, N.V.*  
ODINTSOVA, N.V.

Effect of some pharmacological substances on the resistance of the central nervous system to anemia in frogs. Farm. i toks. 20 no.4: 54-57 J1-Ag '57. (MIRA 10:11)

1. Kafedra farmakologii (zav. - prof. N.P.Sinityn) Gor'kovskogo meditsinskogo instituta imeni S.M.Kirova.

(BRAIN, physiology,

eff. of analeptics on resist. to anemia in frogs (Rus))

(ANEMIA, experimental,

eff. of analeptics on brain resist. in frogs (Rus))

(ANALEPTICS, effects,

on brain resist. to anemia in frogs (Rus))

ODINTSOVA, N. V.

Dissertation: "Effect of External Environment and Pharmacological Substances on the Resistance of the Central Nervous System of a Frog to Induced Anemia." Cand Med Sci, Gor'kiy State Medical Inst, Gor'kiy, 1953. Referativnyi Zhurnal--Zhiniya, Moscow, No 7, Apr 54.

SC: BUM 284, 26 Nov 1954

S/262/62/000/005/003/013  
E007/1207

*Author* Odintsova, N. L.

*Title* THE UTILITY OF AN ENGINE KINEMATICALLY CONNECTED WITH THE  
TURBO-SUPERCHARGER

*Periodical* *Referativnyy zhurnal, otdel'nyy vypusk.* 42. *Silovye ustanovki*, no. 5.1962,70, abstract 42.5.302  
(*Uch.zap.Vses.zaochn.in-ta inzh.zh.d.transp.* no. 4. 1959(1960), 139-153)

*Text:* The insertion of a kinematic connecting link between the engine and the turbo-supercharger is difficult to be achieved from the point of view of structural design; it is advisable only if the turbine has a certain excess power that could be transmitted to the engine. There are 13 diagrams and 6 references.

[Abstractor's note. Complete translation.]

Card 1/1

BERIDZE, T.G.; ODINTSOVA, M.S.; SISAKYAN, N.M., akademik

Properties of deoxyribonucleic acid of chloroplasts. Dokl. AN SSSR  
162 no.5:1188-1190 Je '65. (MIRA 18:7)

1. Institut biokhimii im. A.N.Bakha AN SSSR.

ODINTSOVA, M.S.; ENGEL'GARDT, V.A., akademik, glav. red.;  
DEBORIN, G.A., zam. glav. red.; SPIRIN, A.S., doktor  
biol. nauk, red.

[Biosynthesis of protein and nucleic acids] Biosintez belka  
i nukleinovyykh kislot. Moskva, Nauka, 1965. 346 p.  
(MIRA 18:4)

ODINTSOVA, M.S.; RAKOVSKAYA, M.V.; SISAKYAN, N.M.

Activity of some enzymes of phosphorus metabolism in chloroplasts  
isolated from a nonaqueous medium. Biokhimiia 28 no.4:616-  
621 J1-Ag '63. (MIRA 18:3)

1. Institut biokhimii imeni Bakha AN SSSR, Moskva.



ODINTSOVA, M.S. Prinimali uchastiye: MALKOVA, M.G.; KOSAREVA, Ye.A.  
BASS, I.A. [translator]; BEKINA, R.M. [translator]; GVOZDEV, V.A.  
[translator]; GEORGIYEV, G.P. [translator]; GUMILEVSKAYA, N.A.  
[translator]; KUVAYEVA, Ye.B. [translator]; MIL'MAN, L.S.  
[translator]; MIKHAYLOVA, Ye.S. [translator]; MOSOLOVA, I.M.  
[translator]; PINUS, Ye.A. [translator]; SAL'KOVA, Ye.P.  
[translator]; SAMARINA, O.P. [translator]; CHENTSOV, Yu.S.  
[translator]; VETROVA, I.B., red.izd-va; DOROKHINA, I.N., tekhn.red.

[Functional biochemistry of cell structures; symposium 2]  
Funktional'naya biokhimiya kletochnykh struktur; simpozium II.  
1962. 314 p. (MIRA 16:1)

1. International Congress of Biochemistry. 5th, Moscow, 1961.  
(BIOCHEMISTRY—CONGRESSES)

MIKUL'SKA, Ye.I.; ODINTSOVA, M.S.; SISAKYAN, N.M.

Isolation and characteristics of ribosomes from chloroplasts.  
Biokhimiia 27 no.6:1061-1070 N-D '62. (MIRA 17:5)

1. Institut biokhimii imeni Bakha AN SSSR, Moskva.

ODINTSOVA, M. S. (USSR)

"Nucleotide Composition of RNA in the Cell Structures  
of Plants."

Report presented at the 5th International Biochemistry Congress,  
Moscow, 10-16 August 1961

SISAKYAN, N.M.; ODINTSOVA, M.S.; CHERKASHINA, N.A.

Nucleotide composition of ribonucleic acids in cellular structures  
of plants. *Biokhimiia* 25 no.1:160-163 Ja-F '60. (MIRA 13:6)

1. Institut biokhimii imeni A.N. Bakha Akademii nauk SSSR, Moskva.  
(RIBONUCLEIC ACID chem.)  
(NUCLEOSIDES AND NUCLEOTIDES chem.)

SISAKYAN, N.M.; ODINTSOVA, M.S.

Nucleic acids in cellular structures of plants. Izv. AN SSSR. Ser. biol.  
no. 6: 817-850 N-D '60. (MIRA 13:11)

1. The A.N. Bach Institute of Biochemistry, Moscow.  
(NUCLEIC ACIDS)  
(PLANT CELLS AND TISSUES)

ODINTSOVA, M. S.

"The Nucleotide Composition of RNA of Cellular Structures of Plants."

report submitted for the First Conference on the problems of Cyto and  
Histochemistry, Moscow, 19-21 Dec 1960.

Laboratory of Enzymology of the Institute of Biochemistry Imeni A. N. Bakh,  
Academy of Sciences USSR, Moscow.

*GDINTSOVA, M.S.*

BAYEV, A.A. [translator]; BARKHASH, A.P. [translator]; BEKINA, R.M.  
[translator]; VENKSTERN, T.V. [translator]; LISOVSKAYA, N.P.  
[translator]; ~~GDINTSOVA, M.S.~~ [translator]; PINUS, Ye.A.,  
[translator]; TATARSKAYA, R.I. [translator]; ENGEL'GARDT, V.A.,  
akademik, red.; FARNES, Ya., red.; SOKOLOVA, T., tekhn.red.

[Present-day problems in biochemistry; a collection of articles.  
Translations] Sovremennye problemy biokhimii; sbornik statei.  
S predisl. V.A.Engel'gardta. Moskva, Izd-vo inostr. lit-ry, 1957.  
480 p. (MIRA 11:5)

(BIOCHEMISTRY)

*ODINTSOVA, M.S.*

USSR / Plant Physiology. Respiration and Metabolism

H-2

Abs Jour : Ref Zhur - Biol., No 16, 25 Aug 57, No 68933

Author : Sisakyan, N.M., Odintsova, M.S.

Title : Ribonucleic Acid of Plastids and its Changes in the  
Process of Organism Development.

Orig Pub : Biokhimiya, 1956, 21, No 5, 577-584

Abstract : The ribonucleic acid (RNA) content of chloroplasts of sunflower, tobacco and sugar beets decreases with age. The RNA content in chloroplasts of upper tier leaves was lower than in older leaves only during flowering, which is explained by the authors by the flow of RNA to the flowers. The activity of chloroplast ribonuclease increases with age. Simultaneously the content of acid-soluble P decreases. The authors come to the conclusion that one of the causes of the decrease of RNA content in plastids with age is the increased activity of ribonuclease, while the source of P for biosynthesis of RNA is the acid-soluble P.

Card 1/2



ODINTSOVA, N. S.

ODINTSOVA, N. S.: "Ribonucleic acid of the plastides and its transformation during the organism's development". Moscow, 1955. Inst of Biochemistry imeni A. N. Bakh, Acad Sci USSR. (Dissertation for the Degree of Candidate of BIOLOGICAL Sciences)

SO: Knizhnaya letopis' No. 51, 10 December 1955

ODINTSOVA, M. S.

USSR/Biology Biochemistry

Card : 1/1

Authors : Sisakyan, N. M., Memb. Corresp. of Acad. of Sc. USSR, and Odintsova, M. S.

Title : Changes in ribonucleinic acid of plastids in the process of organism development

Periodical : Dokl. AN SSSR, 97, Ed. 1, 119 - 120, July 1954

Abstract : The changes in ribonucleinic acid taking place in chloroplasts and leucoplasts during the process of organism development, were investigated. Results are given in tables. Eight references: 5 USSR, 2 USA and 1 German.

Institution : ....

Submitted : May 6, 1954

ODINTSOVA, N. S.

USSR

Comparative biochemical studies of adenovirus and adenovirus-like viruses. N. S. Odintsova, V. P. Zolotareva, and A. A. Gerasimov. Dokl. Akad. Nauk SSSR, 1984, 271, No. 1, 1-3. (Moscow, U.S.S.R.)

The protein composition of adenovirus and adenovirus-like viruses is compared. The results of the study show that the protein composition of these viruses is similar to that of other organisms. The following amino acids were identified: aspartic and glutamic acids, serine, glycine, alanine, threonine, proline, tyrosine, valine, leucine, isoleucine, phenylalanine, methionine, arginine, histidine, and lysine. The distribution of these amino acids in the proteins of adenovirus and adenovirus-like viruses is similar to that in higher plants and animals. It is concluded that the amino acid composition of these viruses is similar to that of other organisms. This is especially true of the amino acid content of the two. The distribution of the amino acids in the proteins of adenovirus and adenovirus-like viruses is similar to that in higher plants and animals. It is concluded that the amino acid composition of these viruses is similar to that of other organisms. This is especially true of the amino acid content of the two. The distribution of the amino acids in the proteins of adenovirus and adenovirus-like viruses is similar to that in higher plants and animals. It is concluded that the amino acid composition of these viruses is similar to that of other organisms. This is especially true of the amino acid content of the two.

*ODINTSOVA, M.P.*  
ODINTSOVA, M.P.

Changes in the electrocardiogram in heart injuries. Sov.med. 21  
Supplement:14 '57. (MIRA 11:2)

1. Iz kafedry fizioterapii i lechebnoy fizkul'tury Stalinskogo insti-  
tuta usovershenstvovaniya vrachey.  
(HEART--WOUNDS AND INJURIES)  
(ELECTROCARDIOGRAPHY)

ODINTSOVA, M.M.; LAVRENOV, P.F.; EL'YANOV, M.D.

Reviews and discussions. Geol. i geofiz. no.8:138-149 '65.  
(MIRA 18:9)

ODINTSOVA, M.M.; SMIRNOVA, O.K.

Paleogeographic conditions of the formation of diamond continental and marine Jurassic placer deposits in the central and north-eastern parts of the Siberian Platform. Trudy IAFAN AN SSSR Ser. geol. no.9:142-148 '63. (MIRA 16:12)

SMIRNOVA, O.K.; ODINTSOVA, M.M.

Stratigraphy of Lower Jurassic sediments in the Tyung Valley.  
Trudy IAPAN SSSR. Ser.geol. no.6:164-171 '61. (MIRA 14:9)  
(Tyung Valley--Geology, Stratigraphic)  
(Diamonds)

ODINTSOVA, M.M.; FAYNSHTEYN, G.Kh.

(Geology and age of ancient diamond placers in the basin of the  
Malaya Botuobiya River. Trudy IAFAN SSSR. Ser.geol. no.6:154-  
164 '61. (MIRA 14:9)

(Malaya Botuobiya Valley--Diamonds)



ODINTSOV, M. M.; ODINTSOVA, M. M.; BASHKIROV, L. V.

Geology of Jurassic sediments in the northwestern part of the  
Irkutsk amphitheater. Trudy VSGI SO AN SSSR no.3:60-71 '61.  
(MIRA 15:10)

(Irkutsk Province--Geology, Stratigraphic)

FAYNSHTEYN, G.Kh.; ODINTSOVA, M.M.; SMIRNOVA, O.K.

Preliminary data on some characteristics of the distribution of  
Lias diamond-bearing sediments in western Yakutia.  
Mat.pozh. geol. i pol. iskop. Iak. ASSR no.2:35-47 '60. (MIRA 15:10)

(Yakutia---Diamonds)

ОДИНЦОВА, Н. К.

Одинцова, Н. К. "The Nikolay iron-smelting and iron-working plant. From the history of industry in Siberia", Izudy Irkut. gos. un-ta im. Zhukovskogo, Seriya ist.-filol., Vol. III, Issue 2, p. 111-15, - Bibliog: 1/2-15.

So: 0-191, 1. April 43, (Istoria Zhurnal'nykh Stroy, No. 12, 1943).

ODINTSOVA, I.I.; BONDARIK, G.K.

OSV-1 uniaxial compression unit designed by All-Union  
Scientific Research Institute of Hydrogeology and Geological  
Engineering. Razved. i okh. nedr 29 no.6:56-57 Jo '63.  
(MIRA 18.11)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut gidrogeologii i inzhenernoy geologii.

ODINTSOVA, L.I.

New PLV-1 field geological engineering laboratory of the All-Union Scientific Research Institute of Hydrogeology and Geological Engineering. Razved. i okh. nedr 27 no.10:53-54 0 '61.

(MIRA 15:3)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut gidrogeologii i inzhenernoy geologii.

(Engineering geology--Equipment and supplies)

ODINTSOVA, L.I.; SERGEYEV, Ye.M.

Clay boulders of sand deposits in the western part of the  
central Kara Kum. Vest.Mosk.un. Ser.4:Geol. 16 no.6:68-73  
N-D 61. (MIRA 14:12)

1. Kafedra gruntovedeniya i inzhenernoy geologii Moskovskogo  
universiteta.

(Kara Kum--Clay)

ODINTSOVA, L.I. Cand Geo Min Sci -- (diss) "Engineering geological characteristics of the ~~original mountains~~ <sup>ROCKS</sup> of the right bank of the ~~Ob~~ <sup>Russ in the</sup> ~~the~~ <sup>the</sup> region of Kondinskiy <sup>hydraulic</sup> ~~engineering~~ <sup>water supply</sup> alignments." Mos 1958, 18 pp including cover, 1 sheet of tables (Mos Order of Lenin and Order of Labor Red Banner State Univ im M.V. Lomonosov. Geology Faculty. Chair of Soil Science and Engineering Geology) 110 copies (KL, 21-58, 89)

ODINTSOVA, L.I.  
ODINTSOVA, L.I.

Engineering geological characteristics of principal stratigraphic-genetical rock types on the right bank of the Ob' River in the region of the Kondinskoye water gauge points. Vest. Mosk. un. Ser. biol., pochv., geol., geog. 12 no.3:183-196 '57. (MIRA 10:12)

1. Kafedra gruntovedeniya i inzhenernoy geologii Moskovskogo gosudarstvennogo universiteta.  
(Khanty-Mansiysk National Area--Geology)



GEYNOVA, L.A.; MATOVSKIY, I.M.; ODINTSOVA, K.P.; SHAPIRO, A.Sh.  
(Chelyabinsk)

Prophylaxis for angina incidence at industrial enterprises in  
Chelyabinsk. Zdrav. Ros. Feder. 7 no.8:30-32 Ag'63.  
(MIRA 16:10)

(CHELYABINSK — TONSILS — DISEASES)  
(CHELYABINSK — INDUSTRIAL HYGIENE)

MATOVSKIY, I. M.; GRIGOR'YEVA, A. T.; YELETSKOVA, A. S.; ODINTSOVA,  
K.P. PATRINA, G. V. (Chelyabinsk).

Results of the organization of a center for occupational  
diseases in Chelyabinsk. Zdrav. Ros. Feder. 7 no. 8:26-27  
Ag '63. (MIRA 16:10)  
(CHELYABINSK--MEDICINE, INDUSTRIAL)

\*

ODINTSOVA, K.P.

Organization of dispensary service for workers of Chelyabinsk  
industrial establishments. Zdrav.Ros.Feder. 7 no.3:22-25 Mr '63.  
(MIRA 16:3)

1. Glavnyy terapevt Chelyabinskogo gorodskogo otdela zdravookhra-  
neniya.

(CHELYABINSK--DISPENSARIES)

TANKUS, O.; ODINTSOVA, K., master po respisi

Photographic printing on textiles. Prem. koop. 13 no.4:20-21 Ap  
'59. (MIRA 12:6)

- 1. Zaveduyushchaya tekstil'noy laboratoriyey Nauchno-  
issledovatel'skego instituta khudozhestvennoy promyshlennosti.  
(Textile printing)

ODINTSOVA, I.T.

Effect of polyploidy in Persian and crimson clovers. Sbor. trud.  
asp. 1 mol. nauch. sotr. VIR no.5:273-275 '64.

(MIRA 18:3)

ODINTSOVA, I.N.

Determination of the spectrum of ionizing solar radiation during the flare of August 22, 1958 on data of vertical ionospheric sounding.  
Geomag. i aer. 4 no.6:1035-1042 1964. (MIRA 18:1)

I. Institut zemnogo magnetizma, ionosfery i rasprostraneniya radiovoln  
AN SSSR.

ACCESSION NR: AP4001840

storm inducing a sharp increase in the F2 layer critical frequency. The overall study of F2 layer changes arising in conjunction with solar flares is expected to yield valuable information on the geoactive radiation spectra of these flares. "The author thanks N. P. Ben'kova for her help." Orig. art. has: 2 figures.

ASSOCIATION: Institut zemnogo magnetizma, ionosfery\* i rasprostraneniya radiovoln AN SSSR (Institute of Terrestrial Magnetism, Ionosphere, and Radio Wave Propagation AN SSSR)

SUBMITTED: 22Mar63

DATE ACQ: 17Dec63

ENCL: 00

SUB CODE: AS

NO REF SOV: 001

OTHER: 004

Card 2/2

ACCESSION NR: AP4001840

S/0203/63/003/006/1131/1132

AUTHOR: Odintsova, I. N.

TITLE: Effects in the ionosphere F2 layer during solar flares

SOURCE: Geomagnetizm i aeronomiya, v. 3, no. 6, 1963, 1131-1132

TOPIC TAGS: F2 layer, solar flare, ionospheric F2 layer, chromosphere, electron concentration in F2, cosmic ray intensity, critical frequency in F2, magnetic storm, geosactive radiation, chromospheric flare, solar disturbance, upper ionospheric effects, effects during solar flares, astronomy

ABSTRACT: Five cases of chromosphere flare effects on the F2 layer have been analyzed. These correspond to numbers 3 and 3+ observed on Sept. 21, 1957, and those observed on March 3, 5, and 23 and on August 22, 1958. Each flare has been discussed separately with observation results reported from Talara, Simferopol, and Moscow. The first showed an increase in electron concentration simultaneously with the optical solar flare. A maximum increase in critical frequency of 25% was observed. A complete absorption was found in E and F2 layers during the March 3, 1958 flare. The March 5, 1958 flare was accompanied by a strong magnetic

Card 1/2



ODINTSOVA, I.N.

Effect of solar flares in the ionospheric E and D layers.  
Geomag. i aer. 3 no.4:693-698 J1-Ag '63. (MIRA 16:11)

1. Institut zemnogo magnetizma, ionosfery i rasprostraneniya  
radiovoln AN SSSR.

ODINTSOVA, I.N.; OGIR', M.B.

Ionospheric effects observed in the Crimea during the total solar  
eclipse of February 15, 1961. Izv. Krym. astrofiz. obser. 29:  
175-180 '63. (MIRA 16:10)

9.9842

38811  
S/035/62/000/006/024/064  
A001/A101

AUTHOR: Odintsova, I. N.

TITLE: On some specific features of ionospheric disturbances at medium latitudes

PERIODICAL: Referativnyy zhurnal, Astronomiya i Geodeziya, no. 6, 1962, 58, abstract 6A435 ("Izv. Krymsk. astrofiz. observ.", 1961, v. 26, 161 - 170, English summary)

TEXT: The author considers the behavior of layer  $F_2$  of the ionosphere both during magnetic storms and in a quiet magnetic field from July 1957 to December 1958 and also during May - July 1959. She shows that most ionospheric disturbances begin with some delay after magnetic storms, rather often magnetic disturbances are not accompanied by ionospheric disturbances at all, and vice versa, sometimes a considerable change in electron concentration of the  $F_2$  region is observed, although the magnetic field is quiet or only slightly disturbed. There are 15 references.

[Abstracter's note: Complete translation]

Author's summary

Card 1/1

3/033/52/000/006/020/064  
A00124101

AUTHORS: Vladimirovskiy, B. M., Dveryashin, A. S., Yeryushev, N. N.,  
Molnseyev, I. G., Neshpor, Yu. I., Ogir', M. B., Odintsova, I. N.

PERIODICAL: Referativnyy zhurnal, Astronomiya i Geodeziya, no. 6, 1962, 58,  
abstract 6A431 ("Izv. Krymsk. astrofiz. observ.", 1961, v. 26,  
74 - 89, English summary)

TEXT: Information is given on observational data of the flare of August 22, 1958, obtained at the Crimean Astrophysical Observatory by means of coronagraph, radio telescopes, ionospheric station, atmospherics, and geomagnetic station; data on cosmic radiation (according to observations at a number of stations) are also presented. There are 17 references.

Authors' summary

[Abstracter's note: Complete translation]

Card 1/1

The connection of Pc geomagnetic pulsations ...

29678  
S/169/61/000/005/049/049  
A005/A130

corpuscular radiation. In the authors' opinion, geomagnetic pulsations are caused by processes in ionospheric layers in gravitational and magnetic fields. This being the case, it is possible to explain the seasonal and diurnal variations of Pc AR and their connection with other ionospheric effects. Owing to interaction of solar corpuscular radiation with the earth's outer atmosphere, the hydrodynamic excitation that is generated is actually propagated along the lines of force of the magnetic field up to the ionosphere, inducing disturbances in the magnetic field on the earth. Magnetic disturbances in the mechanism proposed by the authors for the excitation of Pc AR magnetic pulsations are the agents that drive the layers out of the equilibrium state.

Authors' summary

[Abstractor's note: Complete translation.]

Card 3/3

✓

The connection of Pc geomagnetic pulsations ... 29678  
 solar corpuscular radiation. A sharp maximum of Pc AR appears at 8-9-10  
 o'clock local time that does not shift in time with the season. At the  
 same time: 1) the lamination of the E-region becomes stable; 2) the  
 magnitude  $\Delta f$  of F2 (the deviation of the critical frequencies of the E2  
 layer from the slipping median) attains a maximum value; 3) the depres-  
 sion of the critical frequencies attains a maximum value; 4) the decreas-  
 e of the amplitude of the static S<sub>3</sub>-variation of the H-component of the  
 magnetic field, which is caused by tidal effects in the ionosphere,  
 attains a maximum value. The regular excitation of the Pc AR geomagnetic  
 pulsations and their stable maximum in the diurnal variation for local  
 time in any season corroborate that the investigated effects are caused  
 by a distinctive feature of the daily position of the passage of the ob-  
 servation point through a maximum of the electrodynamic force generated in  
 the earth's magnetic field by the tidal motions generated in the con-  
 ducting layers by the gravitational action of the sun. Earlier it was  
 assumed that Pc AR pulsations result from the earthward motion of hydro-  
 dynamic waves excited at the outer boundary of the atmosphere by solar

Card 2/3

9.9100 (4150 1111)

29678  
S/169/61/000/005/049/049  
A005/A150

AUTHORS: Dvoryashin, A.S., Odintseva, I.N.

TITLE: The connection of Pc geomagnetic pulsations with ionospheric processes

PERIODICAL: Referativnyy zhurnal, Geofizika, no. 5, 1961, 33-34, abstract 5 G 272. (Izv. Krymsk. astrofiz. observ., 1960, v. 24, 16-25 (English summary))

TEXT: PcAR geomagnetic pulsations were investigated on the basis of high-speed recordings of the magnetic field that were obtained with the fluxmeter apparatus of the Crimean Astrophysical Observatory from June 1957 to December 1959. Inasmuch as solar corpuscular radiation is always present and the physical conditions in the ionosphere that determine the damping of hydromagnetic waves vary little with the season, the sharp seasonal variation of Pc AR calls into question the theory that Pc geomagnetic pulsations result from the earthward motion of hydromagnetic waves that are excited at the boundary of the earth's outer atmosphere by

Card 1/3

Formation of additional ...

S/712/60/023/000/001/014  
D218/D301

netic field with periods of 2 - 10 seconds. The corpuscular streams consist of fast particles which enter the atmosphere at middle latitudes. They are injected into the magnetic field during magnetic storms and may be accelerated in the geomagnetic field by a Fermi-type mechanism. These conclusions are shown to be consistent with artificial satellite and rocket data. There are 13 figures and 45 references: 18 Soviet-bloc and 27 non-Soviet-bloc. The 4 most recent references to the English-language publications read as follows: L. A. Frank, J. Van Allen, Nature, 183, no. 4659, 1959; A. Chapman, Journ. Atm. Terr. Phys., 13, no. 1/2, 1959; B. Nichols, Proc. I.R.E., 47, no. 2, 1959; J. H. Watts, Journ. Atm. Terr. Phys. 15, no. 1/2, 1959. ix

SUBMITTED: May 19, 1959

Card 2/2



35067  
S/712/60/023/000/001/014  
D215/D301

9,9842 (aka 1046)

AUTHORS: Everyashin, A. S. and Odintsova, I. K.

TITLE: Formation of additional ionization in the E region of the ionosphere during strong magnetic storms

SOURCE: Akademiya nauk SSSR. Krymskaya astrofizicheskaya observatoriya. Izvestiya, v. 23, Moscow, 1960, 113-128

TEXT: The authors report on an analysis of experimental data on the formation of additional ionization in the E region during sudden magnetic storms. The main concern is with a number of new effects associated with strong magnetic storms. In particular, an analysis is reported on ionograms, the diurnal variation in the critical frequencies, and the minimum effective heights of the E layer during the magnetic storms of September 4, 1957, September 23, 1957, February 11, 1958, and July 8, 1958. The analysis indicates that the additional ionization in the regions below the E2 layer was due to corpuscular streams. These streams are also responsible for polar auroras and short-period pulsations in the mag-

Card (1,2)

ODINTSOVA, I.N.

Determination of a "quiescent" ionosphere. Izv.Krym.astro-  
fiz.obser. 17:232-241 '57. (MIRA 13:4)  
(Ionosphere)

ODINTSOVA, I.G.

Pollen morphology in polyploid clovers as a criterion for  
its study. Tsitologiya 7 no.5:683-686 S-0 '65.

(MIRA 18:12)

1. Laboratoriya tsitologii Vsesoyuznogo instituta rasteniyevodstva,  
Leningrad. Submitted April 20, 1965.

ODINTSOVA, I.G.

Artificial polyploids of clover (*Trifolium resupinatum* L. and  
*Trifolium incarnatum* L.). Genetika no.3:85-91 S '65.

(MIRA 18:12)

1. Vsesoyuznyy institut rasteniyevodstva, Moskovskoye  
otdeleniye. Submitted May 5, 1965.

L 01290-66

ACCESSION NR: AP5021486

ENCLOSURE: 02

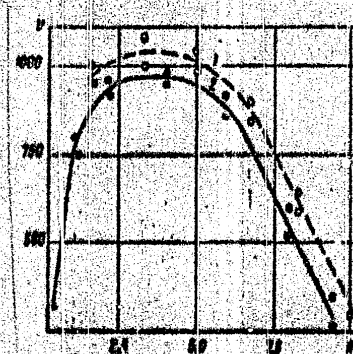


Fig. 2. Distribution of velocities  $v$  (m/sec) along the radius of the accelerator  $R$  (cm) measured by the photographic (1) and photoelectric (2) methods

Card 4/4

L 01290-66

ACCESSION NR: AP50214(11)

ENCLOSURE: 01

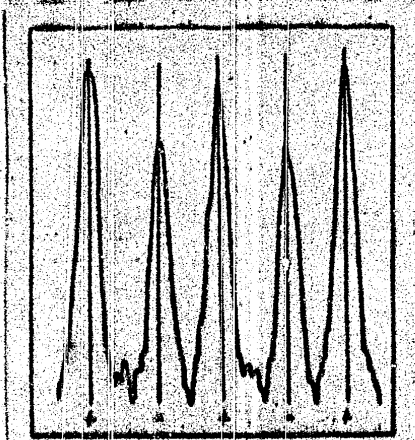


Fig. 1. Recording for Ar I lines at  
4158.8 Å

Card 3/4

L 01290-66

ACCESSION NR: AP5021486

photoelectric recordings for Ar I lines at 4158.6 Å is shown in fig. 1 of the Enclosure. The Doppler shift due to plasma rotation was measured by recording the lines alternately from different sections of the accelerator located symmetrically on both sides of the cathode. The figure shows two systems of superimposed lines. The peaks marked "+" were recorded on one side of the cathode, while those marked "-" were recorded on the other side at an equal distance. The shift  $\Delta\nu$  in one system of lines with respect to the other is related to the linear velocity of rotation in a given annular layer of the plasma by the expression  $\Delta\nu = \nu_0 \frac{2v}{c}$ , where  $\nu_0$  is the frequency of the spectral line and  $c$  is the velocity of light. The average error in measurements was  $\pm 0.01 \text{ cm}^{-1}$ , which corresponds to a particle velocity of approximately 100 m/sec. A comparison between the photoelectric and photographic methods in measurements of the distribution of velocities of argon ions is shown in fig. 2 of the Enclosure. Since line shape does not figure in the photographic method of measurement, the photoelectric method is preferable, particularly in cases where the lines are asymmetric. Orig. art. has: 4 figures.

ASSOCIATION: none

SUBMITTED: 01Mar65

ENCL: 02

SUB CODE: ME

NO REF SOV: 003

OTHER: 002

Card 2/4

L 01290-66 EWT(1)/EPF(n)-2/ENG(m)/EPA(w)-2 IJP(c) AT

ACCESSION NR: AP5021486

UR/0386/65/003/002/0105/0108  
537.531:535.3

AUTHOR: Odintsova, G. A.; Vaulin, Ye. P.

TITLE: Using a photoelectrically recording Fabry-Perot interferometer to measure the velocities of particles in a rotating plasma

SOURCE: Zhurnal prikladnoy spektroskopii, v. 3, no. 2, 1965, 105-108

TOPIC TAGS: plasma physics, interferometer, particle acceleration, gas discharge

ABSTRACT: The rotational velocities of atoms and ions were determined from the Doppler shift in spectral lines. A plasma accelerator of the acyclic type was used, operating in steady-state conditions. A high-current gas discharge (about 300 amps) was produced in argon at a pressure of 1 mm Hg between the cathode and the anode, which were made in the form of coaxial cylinders. The whole system was located in a homogeneous 800 oersted magnetic field parallel to the accelerator axis. The plasma in the anode (the outside electrode) was observed through slits. A Fabry-Perot interferometer-spectrograph combination was used for the observations. The interference pattern was recorded both photographically and photoelectrically. One of the

Card 1/4



KRASNOV, S., kand.ekonom.nauk; ODINTSOVA, G., inzh.

Economic justification of new techniques. Mias.ind.SSSR 30  
no.6:38-39 '59. (MIRA 13:4)

1. Moskovskiy tekhnologicheskii institut myasnoy i molochnoy  
promyshlennosti.  
(Moscow--Meat industry--Management)

OBINTSOVA, F.P.

Comparative evaluation of some methods of treating occupational  
eczema and dermatitis. Trudy GIGT no.9:118-124 '62. (MIRA 17:9)

KOTLYAR, A.M., nauchnyy sotrudnik; ODINTSOVA, A.P.; BELIKOVA, K.P.

Follow-up of published articles. Tekst.prom.22 no.3:94-96 Mr '62.  
(MIRA 15:3)

1. Tsentral'nyy nauchno-issledovatel'skiy institut sherstyanoy  
promyshlennosti (for Kotlyar). 2. Glavnyy inzh. fabriki "Krasnaya  
krut'il'shchitsa" (for Odintsova). 3. Nachal'nik planovogo otdela  
(Textile industry)

KORITYSSKIY, Ya.I.; KORNEV, I.V.; ODINTSOVA, A.P.; KATSMAN, Z.Ya.

FDKV apparatus for testing bobbins. Tekst.prom. 20 no.9:23-26 S  
'60. (MIRA 13:10)

1. Sotrudniki Vsesoyuznogo nauchno-issledovatel'skogo instituta tekstil'nogo i legkogo mashinostroyeniya (for Koritysskiy, Kornev).
2. Rabotniki fabriki "Krasnaya krutil'shchitsa" (for Odintsova, Katsman).

(Bobbins (Textile machinery)--Testing)

ODINTSOV, Yu.

Characteristics of the sensitivity of *Listeria* to some antibiotics. Trudy Tom NIIVS 12:85-87 '60 (MIRA 16:11)

1. Nauchnyy studencheskiy kruzhok pri kafedre mikrobiologii Tomskogo meditsinskogo instituta.

\*

ODINTSOV, Vladimir Yevgen'yevich

[Success in the work depends on personnel] Uspekh dela  
reshaiut kadry. Elista, Kalngosizdat, 1963. 110 p.  
(MIRA 17:9)

ODINTSOV, Vasil'y Yegorovich; LEVITSKAYA, G.P., red.; CHEREVATSKIY,  
S.A., tekhn. red.

[Handbook for rural electricians] Spravochnik sel'skogo elektro-  
tekhnika. 4. izd., dop. i perer. Kiev, Gos. izd-vo sel'khoz.  
lit-ry USSR, 1962. 433 p. (MIRA 15:5)  
(Rural electrification--Handbooks, manuals, etc.)  
(Electric engineering--Handbooks, manuals, etc.)

ODINTSOV, V.Ye. [Odyntsov, V.IE.], inzh.-elektrik

Antisepticizing wood in trenches. Mekh. sil'. hosp. 9 no.10:  
21-22 0 '58. (MIRA 11:10)

(Wood--Preservation)



ODINTSOV, Vasilii Yegorovich

[Rural electrician's handbook] Spravochnik sel'skogo elektrotekhnika.  
3.izd., dop. i perer. Kiev, Gos.izd-vo selkhoz lit-ry Ukrainskoi  
SSR, 1958. 548 p. (MIRA 12:3)  
(Electricity in agriculture--Handbooks, manuals, etc.)

ODINTSOV, Vasilii Yegorovich; SHAGOMYALO, V.I., redaktor; DEREVYANKO, G.S.,  
tekhnicheskii redaktor

[Rural electric engineering handbook] Spravochnik sel'skogo elektro-  
tekhnika. Izd. 2-oe, dop. Kiev, Gos. izd-vo selkhoz. lit-ry USSR,  
1956. 349 p. (MLBA 9:8)  
(Electric engineering) (Electricity in agriculture)

ODINTSOV, Vasilii Yegorovich; DENISENKO, L., veduchiy redaktor; NOVIK, O.,  
tekhnichniy redaktor

[Rural electric transmission lines] Sil's'ki lini elektropredachi.  
Kyiv, Derzh.vyd-vo tekhn.lit-ry URSR, 1956. 170 p. (MLRA 10:7)  
(Electric lines--Overhead)

ODINTSOV, V.S., kand.biolog.nauk (Moskva)

Only insecticides? No, chemical sterilants as well! Priroda  
54 no.12:72-75 D '65. (MIRA 18:12)

(A) L 1201.66 EMT(1)/EWA(3)/T/EWA(5)-2 RO/JK

ACC NR: AP6001001 SOURCE CODE: UR/0286/65/000/022/0075/0075

AUTHOR: Odintsov, V. S. 44.55

ORG: none 29 B 6.44.55

TITLE: A method for controlling larvae and pupae of blood sucking mosquitoes. Class 45, No. 176464

SOURCE: Byulleten' isobreteniy i tovarnykh znakov, no. 22, 1965, 75

TOPIC TAGS: insect control, insecticide, hydrogen sulfide

ABSTRACT: This Author Certificate presents a method for controlling larvae and pupae of blood-sucking mosquitoes in water bodies by the toxic action of poison gas (contained in foams) on their respiratory systems. To prevent poisoning of fish and fish fodder organisms and to increase the stability of the foams, vapors of hydrogen sulfide mixed with air are used as the poison gas. The concentration of hydrogen sulfide in the air may constitute 40 mg/liter.

SUB CODE: 06/ SUBM DATE: 29Aug63

Card 1/1 MW UDC: 632.951.21661.22

ODINTSOV, V.S.

Gas-foam method for controlling arthropod pests. Report No. 1:  
Laboratory and field tests on the toxicity of gaseous (anhydride)  
foam to the larvae and pupae of mosquitoes of the genus *Aedes*.  
Zool. zhur. 41 no.12:1838-1843 D '62. (MIRA 16:3)

1. Biologico-Pedological Faculty, State University of Moscow.  
(Mosquitoes--Extermination) (Sulfur dioxide--Toxicology)

ODINTSOV, V.S.

Winter development of the larvae of black flies (Diptera, Simuliidae).  
Zool. zhur. 40 no.12:1832-1841 D '61. (MIRA 15:3)

1. Department of Entomology, Biological-Pedological Faculty,  
State University of Moscow.

(Black flies)

ODINTSOV, V.S.

Materials on the fauna and biology of bloodsucking black flies  
(Diptera, Simuliidae) in the basin of the Klyaz'ma River. Ent.  
oboz. 40 no.2:339-350 '61. (MIRA 14:6)

1. Kafedra entomologii Moskovskogo gosudarstvennogo universiteta,  
Moskva.

(Klyaz'ma Valley--Black flies)



ODINTSOV, V. S.

Cand Bio Sci, Diss -- "Biological and technical bases of measures for combating midges (Diptera Simuliidae)". Moscow, 1961. 15 pp, 22 cm (Moscow State U imeni M. V. Lomonosov. Bio-Soil Fac of the Dept of Entomology), 120 copies, Not for sale, 20 works by the author listed on pp 14-15 (KL, No 9, 1961, p 180, No 24315). /61-50367

ODINTSOV, V.S.

Laboratory culture of bloodsucking black flies (Diptera, Simuliidae).  
Report No.1: Laboratory rearing of pupae and imagoes from early  
larval stages. Zool. zhur. 39 no.11:1637-1643 N '60.  
(MIRA 14:1)

1. Department of Entomology of the Biological-Pedological Faculty,  
Moscow State University.  
(Black flies) (Entomological research)

ODINTSOV, V.S.

Collecting insects by airplane as a new method of studying the  
insect fauna of large areas. Ent. oboz. 39 no.1:227-230 '60.  
(MIRA 13:6)

1. Sanepidotryad, Moskva.  
(Insects--Collection and preservation)

GAYKO, B.A.; ODINTSOV, V.S.; PARAMONOV, B.B.

Effectiveness of thiodiphenylamine against house fly larvae.  
Zhur.mikrobiol.epid. i immun. 30 no.5:143 My '59.

(FLIES--EXTERMINATION) (PHENOTHIAZINE) (MIRA 12:9)

ODINTSOV, V.S.

Rare case of migration of earthworms from soil to kitchen. Gig. 1 san.  
24 no.9:80 S '59. (MIRA 13:1)

(EARTHWORMS)

GAYKO, B.A., podpolkovnik meditsinskoy sluzhby; ODINTSOV, V.S., kapitan  
meditsinskoy sluzhby

New method for eradicating house fly larvae. Voen.-med.zhur. no.9:  
82-83 S '59. (FLIES--EXTERMINATIONS) (MIRA 13:1)

ODINTSOV, V.S.

Water and sandblasting method of controlling larvae of blood-sucking midges (Diptera, Simuliidae). Med. paraz. i paraz. bol. 32 no.4:481-483 Jl-Ag '63. (MIRA 17:8)

1. Iz kafedry entomologii biologo-pochvennogo fakul'teta Moskovskogo gosudarstvennogo universiteta.

~~APPROVED FOR RELEASE: 06/23/11: CIA-RDP86-00513R001237800036-6~~

ODINTSOV, V.P.

1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 2679, 26

ways of evaluating the dry methods of dust removal from  
workers' clothing. Nauch. trudy Perm NII no. 42156-163  
'62. (MIRA 17:6)

(MIRA 1786)



L 2828-66

ACCESSION NR: AP5016168

$0.10) \times 10^8 \text{ sec}^{-1}$ , corresponding to an oscillator strength of  $0.28 \pm 0.02$ . For the 6678 Å line of  $\text{He}^+$ , the corresponding quantities are  $8.9 \times 10^{-8} \text{ cm}^{-1}$ ,  $1.68 \times 10^8 \text{ sec}^{-1}$ , and  $0.26 \pm 0.012$ . The hyperfine structure is estimated to be  $10 \times 10^{-8}$ ,  $3 \times 10^{-8}$ , and  $10 \times 10^{-8} \text{ cm}^{-1}$  for the 5047, 6678, and 7281 Å lines of  $\text{He}^+$ , respectively. Allowance for the hyperfine structure reduces the natural width by as much as 25%. Orig. art. has: 2 formulas and 2 tables.

ASSOCIATION: None

SUBMITTED: 11/23/64

NR REF SOV: 002

ENCL: 00

OTHER: 013

SUB CODE: 0P

BVK  
Card 2/2

L 2828-66 EWT(1)/EWT(m)/EPF(c)/EPA(w)-2/EWP(t)/EWP(b)/EWA(m)-2 LJP(c)  
 ACCESSION NO: AP5016168 JD/AT

AUTHOR: Korolev, F. A.; Odintsov, V. I.

UR/0051/65/01B/006/0968/0973  
 535.338;546.291

TITLE: Investigation of the width of helium spectral lines with electron excitation in an atomic beam

SOURCE: Optika i spektroskopiya, v. 18, no. 6, 1965, 968-973

TOPIC TAGS: Helium, line broadening, excitation spectrum, line width, Doppler effect, hyperfine structure

ABSTRACT: The widths of several isolated helium lines emitted by an atomic beam were investigated experimentally. The apparatus employed was described elsewhere (Opt. i spektr. v. 10, 403, 1961). The results disclosed an appreciable Doppler broadening of the lines, due to collisions between the atoms and the exciting electrons. This broadening was calculated theoretically for the helium lines 4922 Å ( $2^1P_1 \rightarrow 1^1D_2$ ), 5016 Å ( $2^1S_0 \rightarrow 3^1P_1$ ), 5047 Å ( $2^1P_1 \rightarrow 4^1S_0$ ), 6678 Å ( $2^1P_1 \rightarrow 3^1D_2$ ), 7281 Å ( $2^1P_1 \rightarrow 1^1S_0$ ), and for all the components of the  $H_\alpha$  line. The natural width of the  $2^1P_1$  level was determined, together with the associated transition probability for the helium 3304 Å resonant line. The value of the width was found to be  $(9.8 \pm 0.5) \times 10^{-8} \text{ cm}^{-1}$ . The transition probability was found to be  $(1.85 \pm$

Card 1/2

ACCESSION NR: AP4032861

investigating the contours of several visible lines, specifically, the 6717 & 6266 and 6503 & 6163 Å pairs, all associated with transitions feeding this level and each pair departing from the same 3p level. The source was an atomic beam, which has the advantage that it allows of obtaining lines with a very small Doppler width. The spectroscopic equipment consisted of a sealed Fabry-Perot etalon and an ISP-51 spectrograph (the monochromator); the radiation was detected by means of a photomultiplier viewing an electron-optical image converter. The final average value obtained for the natural width of the  $3s' [1/2]_0$  level is  $(3.5 \pm 0.3) \times 10^{-3} \text{ cm}^{-1}$ , which corresponds to a value of  $(6.6 \pm 0.6) \times 10^8 \text{ cm}^{-1}$  for the transition probability and  $f = 0.16 \pm 0.014$  for the oscillator strength. The corresponding theoretical values of Gold and Knox are  $4.5 \times 10^8 \text{ sec}^{-1}$  and  $f = 0.11$ , i.e., somewhat lower. Orig.art.has: 3 figures.

ASSOCIATION: none

SUBMITTED: 15 Jul 63

DATE ACQ: 07 May 64

ENCL: 00

SUB CODE: OP

NR REF SOV: 002

OTHER: 003

Card 2/2

ACCESSION NR: AP4032361

S/0051/64/016/004/0555/0558

AUTHOR: Korolev, F.A.; Odintsov, V.I.; Fursova, Ye.V.

TITLE: Determination of the transition probability for the 736 Angstrom resonance line of neon

SOURCE: Optika i spektroskopiya, v.16, no.4, 1964, 555-558

TOPIC TAGS: optical transition probability, level width, oscillator strength, resonance line, neon, atomic spectrum

ABSTRACT: The transition probability for the 736 Å resonance line of neon was determined earlier by W.Schutz (Ann.Phys.18,705,1933) and H.Schillback (Ibid.18,721, 1933). They obtained a value of  $(8 \pm 4) \times 10^8 \text{ sec}^{-1}$ , which corresponds to an oscillator strength  $f = 0.2 \pm 0.1$ . However, in view of the procedure employed, the reliability of this result is not sufficient for verifying the theoretical calculations of A.Gold and R.S.Knox (Phys.Rev.113,834,1959). Accordingly, the present measurements were undertaken to obtain a more reliable and accurate value. The transition probability for the Ne 736 Å line was determined with reference to the width of the departure level:  $3s' [1/2] 0$ . The natural width of this upper level was found by in-

Card 1/2

L 9192-66 EWT(1)/EWT(m)/EWP(b)/EWP(t) IJP(c) JD

ACC NR: AR6000110

SOURCE CODE: UR/0058/65/000/008/1023/1023

SOURCE: Ref. zh. Fizika, Abs. 8D179

AUTHORS: <sup>44.55</sup>Korolev, F. A.; <sup>44.55</sup>Odintsov, V. I.; <sup>44.55</sup>Pursova, Ye. V.

ORG: none

TITLE: Determination of the probability of transition from the  $1s_2$  level of neon to the ground state from the natural width of the spectral lines

CITED SOURCE: Tr. Komis. po spektroskopii. AN SSSR, t. 2, vyp. 1, 1964, 273-280

TOPIC TAGS: line width, <sup>21.44.55</sup>spectral line, transition probability, neon, electron bombardment

TRANSLATION: An investigation was made of the contours of several spectral lines of neon and the probability of transition from the  $1s_2$  level to the ground state was estimated from the natural width of the spectral lines. The light source was an atomic beam of neon, excited by electron bombardment. The high-resolution instrument was a Fabry-Perot etalon. The glow was recorded with the aid of an electrooptical converter. The natural width of the  $1s_2$  level was found to be  $4 \times 10^{-3} \text{ cm}^{-1}$ , corresponding to a transition probability  $0.75 \times 10^9 \text{ sec}^{-1}$ .

SUB CODE: 20/ SUBM DATE: none/ ORIG REF: 000/ OTH REF: 000

Card 1/1

ODINTSOV, V.I.

Use of reflected light in work with a Fabry and Perot etalon.  
Opt. i spektr. 11 no. 4:553-555 0 '61. (MIRA 14:10)  
(Interferometer)

20772

The Atomic Beam as a Light Source...

S/051/61/010/003/005/010  
E032/E514

Fig. 4

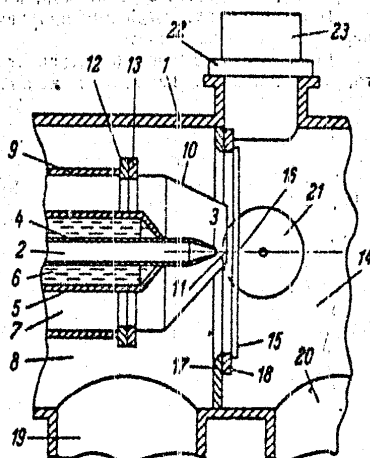
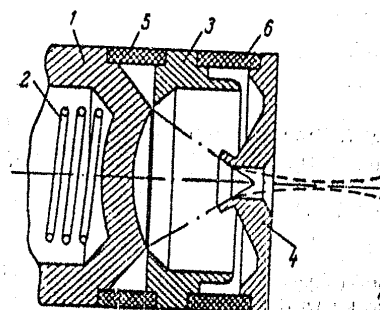


Fig. 5



Card 5/5

20772

The Atomic Beam as a Light Source... S/051/61/010/003/005/010  
E032/E514

electron beam produced with the aid of the electron gun shown in Fig.5. The oxide-coated spherical cathode 1 is made of nickel and has a radius of 7 mm. The cathode is heated by the bifilar spiral 2. The forms of the cathode-electrode 3 and the anode 4 were chosen after electrolytic bath studies. The two parts of the gun are held together by the quartz rings 5 and 6. The minimum diameter of the electron beam is less than 0.4 mm. The current density at the minimum cross-section is approximately  $6 \text{ A/cm}^2$  with an anode to cathode voltage of 600 V. The apparatus is being used to investigate the structure of some inert-gas lines. Acknowledgments are expressed to F. A. Korolev for suggesting this topic and directing the work. There are 7 figures and 10 references: 1 Soviet (a translation from English) and 9 non-Soviet.

SUBMITTED: May 14, 1960

Card 4/5



20772

The Atomic Beam as a Light Source... S/051/61/010/003/005/010  
E032/E514

fourth chamber is pumped by two pumps one of which (20) is shown in the figure. The width of the first slit is approximately 0.05 mm and its length is about 2 mm. The widths of the second and third slits are chosen in the light of the required beam collimation. Their lengths are roughly equal to that of the first slit. All the atomic beam slits are located horizontally, i.e. perpendicular to the plane of the paper in Fig.4. The second and third slits can be moved, together with the flanges 13 and 18, by means of special attachments. The atomic beam is excited with the aid of an electron gun (the anode of the gun 21 is shown in Fig.4). The electron gun is mounted in a special holder so that it can be adjusted to the required position relative to the beam axis. The electron beam is perpendicular to the plane of the paper. The radiation emitted by the atomic beam is observed through the viewing window 22 and the prism 23. All the diffusion pumps are equipped with nitrogen traps and there is an additional nitrogen trap in the excitation chamber. The final vacuum is better than  $5 \times 10^{-7}$  mm Hg. When the beam is formed by only two slits, the partition 15 can be removed. The atomic beam is excited by the

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Card 3/5

20772

The Atomic Beam as a Light Source... S/O51/61/010/003/005/010  
E032/E514

reservoir 5 filled with liquid nitrogen 6. In order to improve the heat transfer between the gas and the walls of the tube, a piece of wire gauze is introduced into the tube. The preliminary cooling in the first chamber reduces the Doppler width of the spectral lines and the "consumption" of the substance under investigation. The pressure in the first chamber is adjusted so that the mean free path is of the order of the width of the first slit. The second chamber 7 is separated from the third chamber 8 by the cylindrical cap 9 with the demountable partition 10, which carries the second slit 11. The vacuum seal between the cylindrical cap and the demountable partition is obtained by means of the two flat flanges 12 and 13 which are in direct contact with each other. The second chamber is pumped by a diffusion pump (not shown in the figure). The third chamber 8 and the fourth chamber 14 are separated from each other by the demountable partition 15 which carries the third slit 16. The excitation is produced in the fourth chamber. The vacuum seal is again achieved by the two flat flanges 17 and 18 in direct contact with each other. The third chamber is pumped by the pump 19, while the

Card 2/5

20772

S/051/61/010/003/005/010  
E032/E514

24.3300 (1144, 1395, 1160)

AUTHOR: Odintsov, V. I.

TITLE: The Atomic Beam as a Light Source for the Study of the Spectra of Gases

PERIODICAL: Optika i spektroskopiya, 1961, Vol.10, No.3, pp.403-409

TEXT: The present authors have developed an atomic beam apparatus which can be used to obtain very narrow spectral lines of elements which are normally found in the gaseous state. The apparatus is illustrated schematically in Fig.4 (except for some auxiliary details). The main part of the apparatus is the metal chamber 1, which is pumped by four U8.7-100 (TsVL-100) pumps. It can be divided into a number of chambers with independent pumping using rectangular partitions with slits to allow the passage of the atomic beam. In the apparatus shown in Fig.4 three such slits are employed. In the case of monatomic gases, the gas under investigation is admitted through a needle valve and passes into the first chamber ("furnace") 2 through a narrow capillary. This chamber ends in the first slit 3. The first chamber is in the form of a metal tube 4 which passes through a cylindrical

Card 1/5

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The management of the system, which is a primary task of the state, is a complex task. It requires a high level of coordination and cooperation between the state and the private sector. The state must ensure that the system is managed in a way that is consistent with the national interest and the principles of the constitution. The private sector must also be encouraged to participate in the management of the system, and to ensure that it is managed in a way that is consistent with the principles of the market economy.

PM 1991

MATUSEVICH, I.N., kand.tekhn.nauk; CDINTSOV, V.A., inzh.

Vacuum-crystallizer with a jet pump. Khim.mashinost. no.349-15 My. 164.  
(MIRA 13:1)

ODINTSOV, V. G. (Engineer) (Electric steel factory for heavy machine construction)

"Gas-fluxing method of removing the metallized crust from steel casting".  
(In reports by colleagues of VNIItavtogen there were clarified individual questions of improvement and development gas flame treatment of metals. To this group belonged the report above.)

Report presented at the regular conference of the Moscow city administration NTO Mashprom, April 1963.

(Reported in Avtomaticheskaya Svarka, No. 8, August 1963, pp 93-95, M. M. Popekhin)

JPRS24,651 19 May 64

ODINTSOV, V.G.

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inform.Gos.nauch.-issl.inst.nauch.i tekhn.inform. no.12:33-34 '63.  
(MIRA 17:3)

GROKHOL'SKIY, A.L.; ODINTSOV, V.A.

Increasing the accuracy of reproduction of the unit of  
capacitance - the farad. Izv. SO AN SSSR no.2. Ser. tekhn.  
nauk no.1:137-138 '64. (MIRA 17:8)

1. Institut avtomatiki i elektrometrii Sibirskogo otdeleniya  
AN SSSR, Novosibirsk.



ODINTSOV, V.A.; MATUSEVICH, I.N.

Crystallization of potassium dichromate in a circulating vacuum  
crystallizer. Khim. prom. 42 no.9:687-690 S '65.  
(MORA 18:9)

MATUSEVICH, L.N.; GOLUB, S.I.; ODINTSOV, V.A.

New apparatus for carrying out the process of crystallization in  
vacuo. Khim.prom. no.1:60-63 Ja '63. (MIRA 16:3)  
(Crystallization)

19,8000

S/077/62/007/006/002/002  
D036/D114

AUTHORS: Odintsov, V.A., and Solov'yev, V.S.

TITLE: The use of a channelled air-shock wave for brightening in high-speed photographic recording

PERIODICAL: Zhurnal nauchnoy i prikladnoy fotografii i kinematografii, v. 7, no. 6, 1962, 454-455

TEXT: A method is described for obtaining a prolonged stable brightening flash in high-speed photography, using an explosive charge. It consists in placing the brightening charge inside a tube which lies along the optical axis of the photographic recorder. Illumination takes place while the detonation wave passes along the tube. With this method a brightening flash of  $130\mu$ sec was obtained with a 600-m-long tube and a 9.2-g-charge of phlegmatized hexogene, and a flash of  $250\mu$ sec with a 1000-m-long tube and a 6.5-g-charge of trotyl. There are 3 figures and 1 table. ✓B

ASSOCIATION: Moskovskoye vyssheye tekhnicheskoye uchilishche im. I.E. Bauman (Moscow Higher Technical School im. I.E. Bauman)

SUBMITTED: September 25, 1961  
Card 1/1